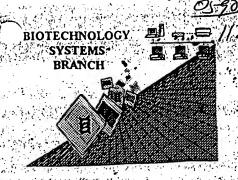
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 59/19/15

Source: OIPE

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE

APPLICANT, WITH A NOTICE TO COMPLY or,

TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A

NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

	0/00/1910
	SUCCESTED CORRECTION SERIAL NUMBER: 09/981915
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ATTN: NEW RULES CASES	The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext at the end of each line "wrapped" down to the next line. This may occur if your file The number hext line is the number hext line. This may occur if your file The number hext line is the number hext
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	the second 72 characters in length. This includes white special
· 2Invalid Line Length	The rules require that a line not exceed the missing of the numbers of the number
3 Misaligned Amino	The numbering under each 3" amino sets as the sets of the numbering under each 3" amino sets as the sets of the number of the nu
Numbering Numbering	The numbering characters, instead. use space characters, instead. The submitted file was not saved in ASCII(DOS) text, as regulated by the Sequence Rules. Please The submitted file was not saved in ASCII text.
i coll	The submitted file was not saved in ASCII lest.
4Non-ASCII	ensure your subsequent
	Contenco(s) contain n's or Xaa's representing most are present the maximum number of each
SVariable Length.	each n or Xaa ear only of adjecte in the <220>-<223> section time contents
	residue parting from amino acid
	residue having variable length and understanding residue having variable length and understanding residue having variable length and understanding residue having a section 10 command and automatically generate this section from the sequences(s) **Normally, Patentin would automatically generate this section to sequence. Please manually copy the relevant (200>-(213) sections for the section of
6Patentin 2.0	A "bug" in Patentin version 1.0 has expensed automatically, generate this section stone acquences(s) Normally, Patentin would automatically, generate this section stone sequence. Please manually copy the relevant <220><223> section to previously coded nucleic acid sequence. This applies to the mandatory <220><223> sections for
oug	previously coded nucleic acid sequence. Please manually copy the relevant <120><223> sections for the subsequent amino acid sequence. This applies to the mandatory <220><223> sections for the subsequent amino acid sequence.
	the subsequent amino actor began
	Sequence(s) missing. If intentional, please insert the following units is shown) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (3) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
7Skipped Sequences	The ALL CON CELL III) NO ALL CONTROL C
(OLD RULES)	(i) SEQUENCE CHARACTERISTICAL SEQ ID NO where "X" is shown)
	(2) INFORMATION FOR SECTION (Do not insert any subsectings which constitution (i) SEQUENCE CHARACTERISTICS: (Do not insert any subsectings which constitution (i) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
	(xi) SEQUENCE DEscription (xi) SEQUENCES: response to Include the skipped sequences. Please also adjust the "(ii) NUMBER OF SEQUENCES: response to Include the skipped sequences.
	Places also adjust the "(ii) NUMBER OF SEQUENCES: Pesponse to Both
	Please also adjust the "(11) NOMBER OF THE Please insert the following lines for each skipped sequents Sequence(s)
8 _ Skipped Sequences	Sequence(s) missing. If Intentional, press
WEM KATES)	2102 requence id number
(NEW KODES)	<100> sequence id number
$n = \frac{1}{2}$	000'
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(NEW RULES)	Per 1.823 of Sequence Kiles, explain location of n or Xaa, and which restout her
•	In <220 to <223 seconds are: Unknown, Artificial Sequence, or
	In <220> to <223> section, please experience, or Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
10Invalid <213>	cientific name (Ochus)
Response	is Artificial Sequence
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11 Vux of <220>	Sequence CAMDATORY (CAMP) Organism
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	"Unknown, 11622 of 06/01/1998, Vol. 63, No. 104, pp. 27031-527
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n nameta 2.0	(See "Federal Register, volovisk" function of Patentin version 2.0. This causes a corrupted file, Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and response (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and response (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and response (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and response (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and response (as indicated on raw sequence) resulting in missing mandatory numeric identifiers and response (as indicated on raw sequence) resulting in missing mandatory (as indicated on raw sequence)
12Patentin 2.0 "bug"	Please do not use "Copy to Disk resulting in missing mandatory numeric identifiers and responses (as indicated of the folloppy disk listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
4 . !	at it, and used to repre
i,	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to repre
13 . Misuse of n	in can only be used to represent a support of the s
• •	AMC/MH - Biotechnology Systems Branch - 08/21/2001

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/981,915

DATE: 11/08/2001
TIME: 13:15:11

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Output Set: N:\CRF3\11082001\1981915.raw

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            Hillan, Kenneth J
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            Kljavin, Ivar J.
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            Kuo, Sophia S.
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             Napier, Mary A.
   21
             Pan, James;
             Paoni, Nicholas F.
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DATE: 11/08/2001 TIME: 13:15:11

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TIME: 13:15:11

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,915

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,915

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,915

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09/981915 Page 165-f &B

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explanation

Does Not Comply Corrected Diskette Needed

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/981,915

DATE: 11/08/2001 TIME: 13:15:12

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L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID\#:8
L:980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:1043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
 L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
 L:1552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
 L:1554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
 L:1556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
 L:1741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
 L:1768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
 L:1805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
  L:1811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
  L:3382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
  L:3384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
  L:3386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
  L:3388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
  L:3396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
  L:3400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
  L:4955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117
  L:5050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
  L:5052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:5756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137
  L:5918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
  L:5920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144
  L:6192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151
  L:6196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151
  L:6223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152
  L:6225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/981,915

DATE: 11/08/2001 TIME: 13:15:12

Input Set : A:\Seq__Listing_for_P2630P1C12.wpd

Output Set: N:\CRF3\11082001\I981915.raw

L:6387 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:157
L:6389 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:6389 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:7713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191
L:7719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191
L:7729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191
L:8724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265
L:10655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265
L:10657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265
L:10657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265